

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P316929

Luminaire Tested: **GLEON-SA5C-827-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5C-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26806 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

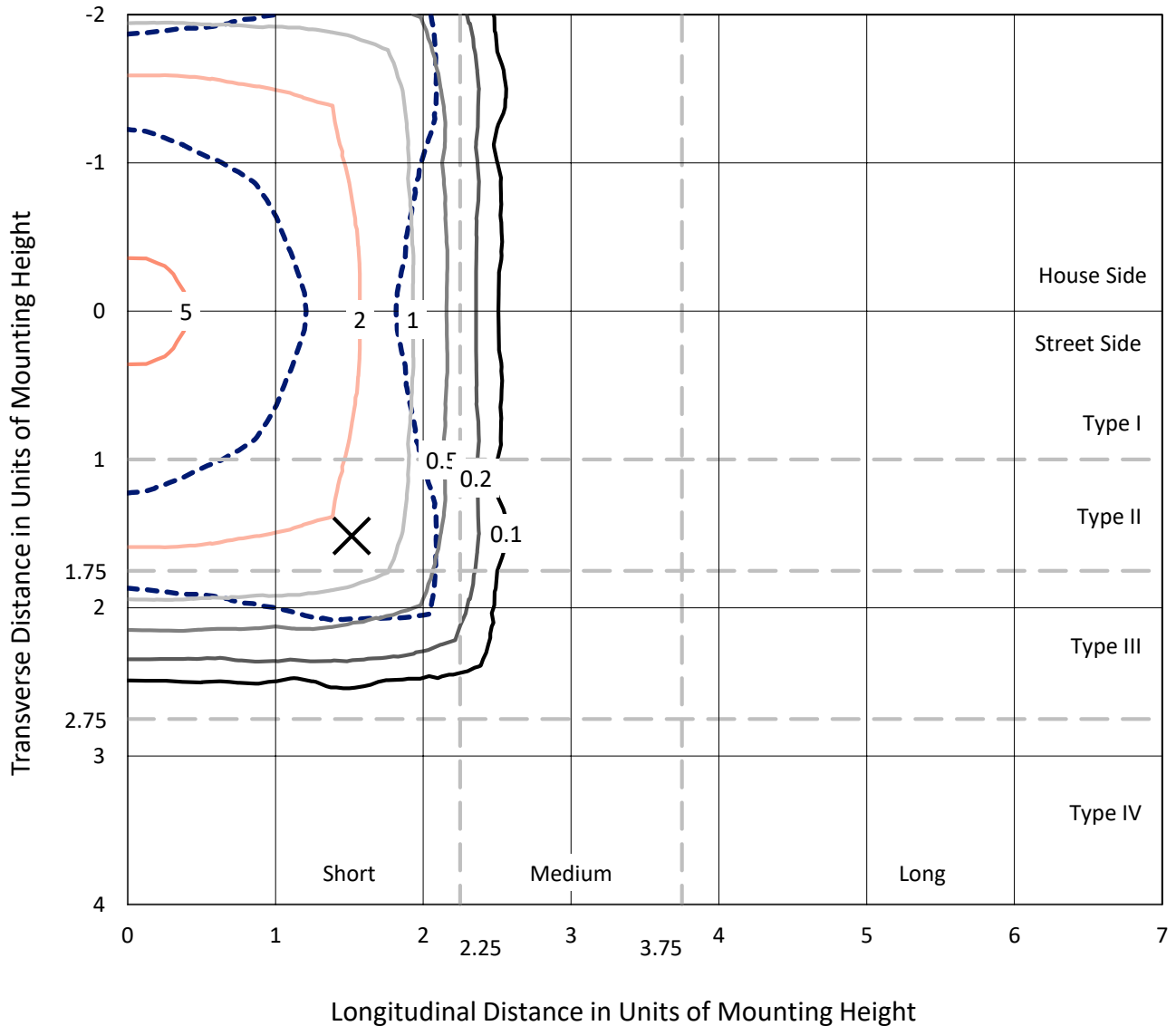
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P316929  
 CATALOG NUMBER: GLEON-SA5C-827-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

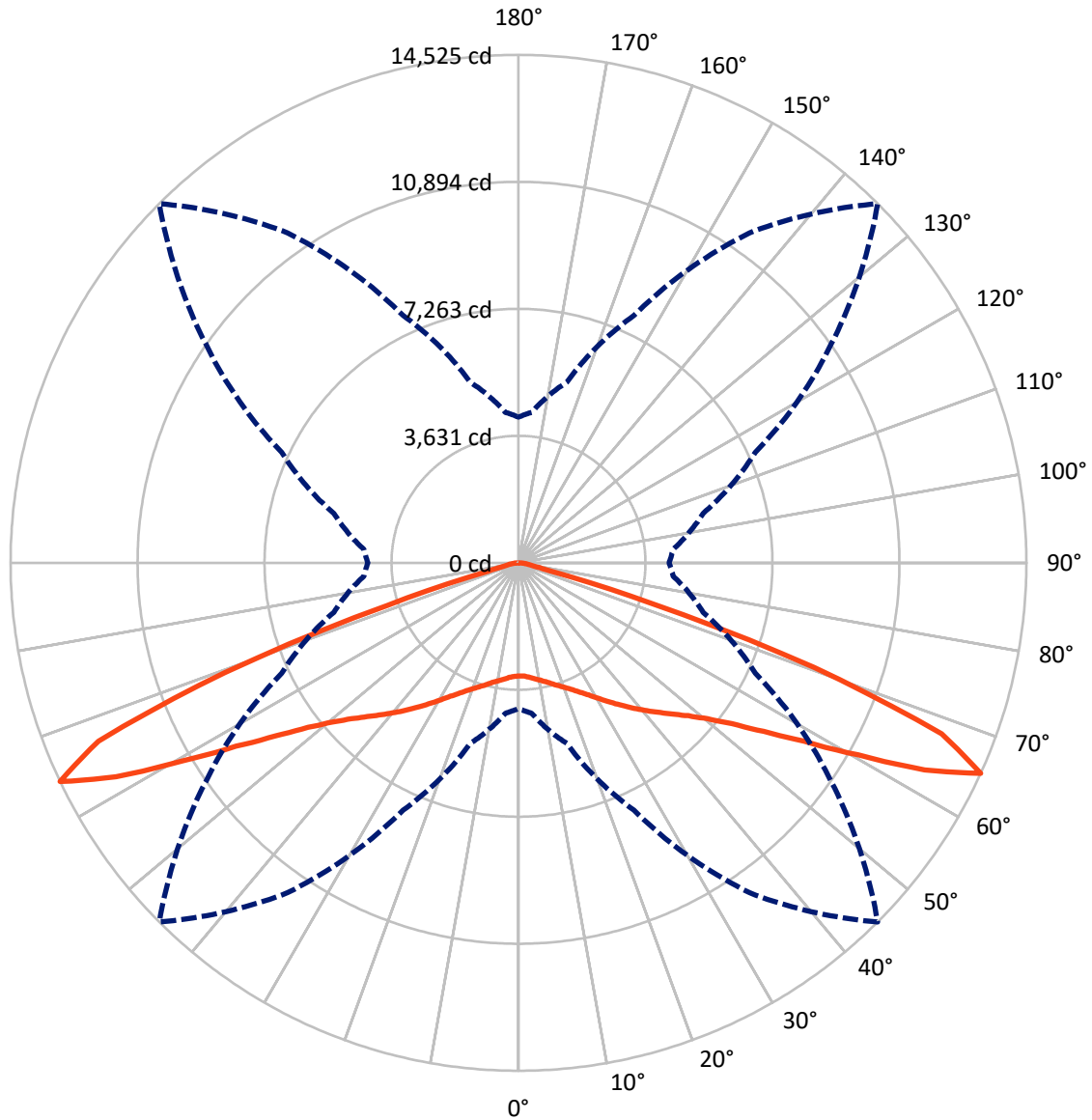
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type V - Short - N/A

REPORT NUMBER: P316929  
CATALOG NUMBER: GLEON-SA5C-827-U-5NQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P316929  
 CATALOG NUMBER: GLEON-SA5C-827-U-5NQ

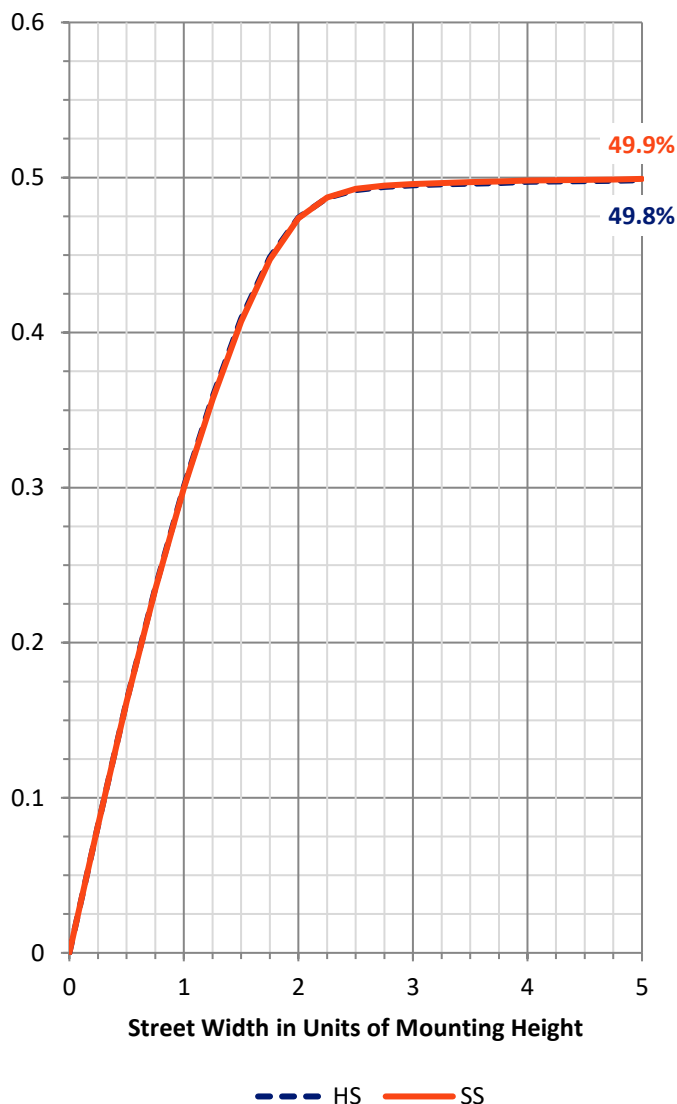
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13403.0	0.0	13403.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13403.0	0.0	13403.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26806.0	0.0	26806.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.6	1.2
10°-20°	1020.9	3.8
20°-30°	1915.4	7.1
30°-40°	3167.6	11.8
40°-50°	4906.2	18.3
50°-60°	7524.8	28.1
60°-70°	7021.5	26.2
70°-80°	817.2	3.0
80°-90°	114.8	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	26806.0	100.0
0°-180°	26806.0	100.0

**Coefficient of Utilization**

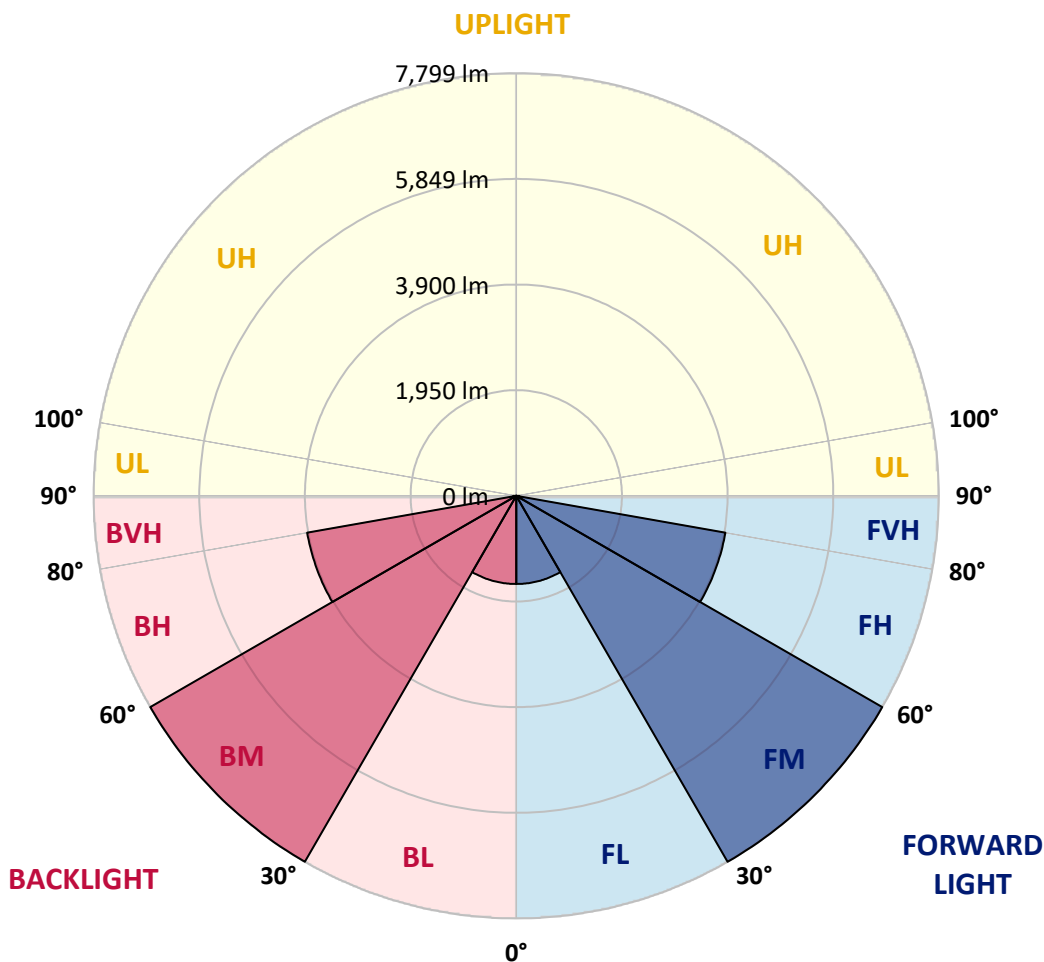


REPORT NUMBER: P316929  
 CATALOG NUMBER: GLEON-SA5C-827-U-5NQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1626.9	6.1			
FM (30°-60°)	7799.3	29.1			
FH (60°-80°)	3919.3	14.6			G2/5000
FVH (80°-90°)	57.4	0.2			G1/100
BL (0°-30°)	1626.9	6.1	B3/2500		
BM (30°-60°)	7799.3	29.1	B4/8500		
BH (60°-80°)	3919.3	14.6	B4/5000		G2/5000
BVH (80°-90°)	57.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**  
 Type V Short





REPORT NUMBER: P316929  
 CATALOG NUMBER: GLEON-SA5C-827-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3237.2	3237.2	3237.2	3237.2	3237.2	3237.2	3237.2	3237.2	3237.2	3237.2	3237.2
2.5°	3247.8	3246.1	3247.8	3248.7	3243.4	3246.1	3245.2	3249.6	3251.4	3249.6	3249.6
5°	3285.2	3282.5	3286.1	3290.6	3283.4	3285.2	3282.5	3287.9	3289.7	3286.1	3288.8
7.5°	3336.8	3337.7	3341.3	3349.3	3344.8	3348.4	3343.1	3343.9	3343.1	3337.7	3338.6
10°	3392.9	3393.8	3400.0	3410.7	3412.5	3412.5	3408.9	3406.2	3402.7	3399.1	3400.0
12.5°	3460.5	3465.0	3469.4	3482.8	3482.8	3489.9	3488.1	3481.0	3474.7	3469.4	3469.4
15°	3552.2	3551.3	3556.6	3570.0	3576.2	3587.8	3587.8	3578.0	3570.0	3564.6	3562.8
17.5°	3648.3	3650.9	3654.5	3670.5	3680.3	3693.6	3695.4	3687.4	3682.1	3675.0	3670.5
20°	3760.4	3764.8	3779.1	3785.3	3794.2	3806.6	3811.1	3809.3	3804.0	3800.4	3801.3
22.5°	3891.2	3902.7	3911.6	3920.5	3931.2	3940.1	3944.6	3950.8	3945.5	3942.8	3941.0
25°	4049.6	4057.6	4075.4	4091.4	4098.5	4101.2	4106.5	4115.4	4114.5	4108.3	4108.3
27.5°	4229.3	4244.4	4266.7	4289.8	4289.8	4280.9	4298.7	4313.8	4308.5	4300.5	4289.8
30°	4447.3	4461.6	4487.4	4519.4	4503.4	4497.1	4521.2	4548.8	4540.7	4527.4	4525.6
32.5°	4682.2	4695.6	4729.4	4764.1	4743.6	4734.7	4760.5	4800.6	4786.3	4759.6	4743.6
35°	4936.7	4950.1	4998.1	5039.9	5005.2	4990.1	5011.5	5055.1	5030.2	4980.3	4967.9
37.5°	5213.5	5220.6	5282.9	5325.6	5301.5	5261.5	5288.2	5320.2	5298.9	5238.4	5214.3
40°	5500.9	5526.7	5598.7	5648.6	5606.8	5543.6	5588.1	5632.6	5600.5	5523.1	5482.2
42.5°	5836.3	5855.9	5952.0	5996.5	5928.9	5839.9	5900.4	5960.9	5928.9	5854.1	5818.5
45°	6185.1	6215.4	6330.2	6374.7	6276.8	6163.8	6237.6	6343.5	6340.9	6233.2	6195.8
47.5°	6565.1	6595.3	6732.4	6791.1	6685.2	6533.9	6638.1	6787.5	6776.9	6658.5	6628.3
50°	7003.8	7035.8	7206.6	7280.5	7181.7	7005.6	7162.2	7293.9	7274.3	7128.3	7131.0
52.5°	7554.6	7552.8	7765.5	7893.6	7792.2	7636.4	7780.6	7908.7	7827.7	7625.8	7619.5
55°	8036.9	8066.2	8329.6	8572.5	8566.3	8506.7	8564.5	8569.9	8338.5	8069.8	8036.9
57.5°	8353.6	8409.7	8780.7	9220.3	9549.5	9628.7	9516.6	9176.7	8634.8	8205.0	8152.5
60°	8158.8	8244.2	8827.0	9723.1	10693.0	11158.3	10525.7	9471.2	8404.3	7805.5	7734.3
62.5°	6843.6	6987.8	7841.1	9480.1	11677.1	13037.6	11257.1	8998.7	7487.8	6663.0	6541.1
65°	4167.9	4320.1	5348.7	7802.8	11517.8	14525.4	10923.4	7469.1	5465.3	4439.3	4307.6
67.5°	1389.0	1433.5	2039.5	4313.0	9052.1	13051.0	9067.3	4471.3	2378.5	1576.8	1530.5
70°	543.7	548.1	646.9	1250.2	4274.7	8964.0	4716.9	1272.4	676.3	534.8	546.3
72.5°	399.5	401.3	428.9	522.3	1114.1	3949.0	1154.1	525.0	417.3	374.6	374.6
75°	321.2	321.2	340.8	380.8	499.2	905.8	506.3	376.4	326.6	299.0	295.4
77.5°	253.6	258.9	274.1	299.9	338.1	436.0	350.6	298.1	263.4	237.6	232.2
80°	188.6	194.0	218.9	231.4	242.9	302.5	258.9	233.1	208.2	178.0	172.6
82.5°	123.7	129.0	160.2	167.3	164.6	197.5	174.4	171.7	153.0	114.8	109.4
85°	81.0	82.8	106.8	111.2	102.3	89.9	111.2	117.5	106.8	74.7	72.1
87.5°	38.3	38.3	54.3	50.7	46.3	37.4	50.7	59.6	60.5	36.5	35.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)